# Daniel Andres Jimenez Riveros, MSc-MA

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## Professional Summary

Versatile Data Scientist and experienced Software Developer Engineer with a proven track record at Amazon and a strong academic background in Data Science and Machine Learning. Proficient in designing and developing advanced analytics solutions and interactive front-end dashboards, I have significantly enhanced user engagement and operational efficiency across multiple projects. My expertise extends to architecting scalable back-end services and deploying applications with AWS for optimal performance. With a passion for applying Deep Learning and Machine Learning techniques to solve complex problems, I am eager to leverage my skills in a role that bridges the gap between data science innovation and software development excellence. My professional journey is marked by a commitment to continuous learning and an ambition to drive business improvements through actionable insights derived from sophisticated data analysis

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## Work Experience

### AMAZON, Bogotá, Colombia

***Software Developer Engineer***                                              *July 2022 - August 2023*

- Developed advanced interactive dashboards, enhancing data analysis efficiency for **2,000+ data analysts, significantly improving decision-making speed and accuracy.**
- Optimized application deployment and scalability using **AWS services (EC2, S3, Lambda, DynamoDB, API Gateway, CDK and CloudFormation)**, significantly reducing deployment and maintenance time and increasing scalability.
- Engineered responsive UI/UX front-ends with **Javascript, ReactJS, D3.js, and Redux RTK**, elevating user experience and interaction for key enterprise applications.
- Architected and deployed scalable back-end services using **Typescript, ExpressJS, and NodeJS**, ensuring robust performance and reliability across enterprise systems.
- Implemented critical RESTful APIs, integrating seamlessly with three internal services, empowering over **300 team leaders in the CSBI department** with enhanced data accessibility.

***Business Intelligence Analyst***                                              *July 2021 - July 2022*

- Utilized **Scikit-learn and Pytorch** to train **machine learning and deep learning models (regressions, time series, neural networks), achieving 85% accuracy**, improving operational decisions and efficiency.
- Leveraged EDA insights using Python **(Pandas, NumPy, Matplotlib, Seaborn, Altair, SQL)** for strategic **machine learning model selection and feature engineering**, enhancing product optimization and development.
- Streamlined data preprocessing workflows with **Python, achieving a 50% reduction in processing time**, significantly accelerating project timelines.
- Created dynamic, high-quality visuals with **R(ggplot2)** and **Python(Pandas, NumPy, Matplotlib, Seaborn, Altair)** to represent complex analyses, improving stakeholder understanding of **data science** insights.

***Information Technology Intern***                                              *January 2021 - July 2021*

- Played a key role in the full-stack development of critical internal tools using **JavaScript, Reactjs, nodejs, HTML, and CSS**, directly benefiting over **9,000 Amazon employees through enhanced usability and productivity.**
- Spearheaded the design of intuitive **UI components and icons with Figma**, significantly improving user experience across four major internal applications.
- Acquired and applied knowledge of core **AWS services** and proprietary tools essential for application development, facilitating the robust and scalable deployment of internal applications

### UNIVERSITY OF THE BOSQUE, Bogotá, Colombia

***Professor, Humanities Department***                                              *August 2022 - June 2023*

- Introduced art students to **AI and deep learning concepts**, applying low code resources to create art projects, which fostered an understanding of how modern AI techniques can innovate artistic expression.
- Instructed 35 students per term in programming languages and frameworks focus in creative coding, such as **ThreeJS, Arduino, C++ and D3js.**
- Mentored students in project-based learning, offering personalized guidance and feedback to help them develop innovative digital artworks and interactive projects.

### AQSTICA S.A.S, Bogotá, Colombia

***Data Analyst***                                              *February 2018 - November 2020*

- Applied basic unsupervised learning techniques with **Python(scikit-learn)** to segment customers, driving **targeted marketing and product improvements.**
- Analyzed complex datasets using **Python(Pandas, Numpy)** to strategic decisions, **boosting operational efficiency by 10% in revenue.**
- Automated data cleaning and transformation with **Python, SQL and MongoDB, enhancing data quality by 25% and cutting processing time by 40%.**

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## Education

**University of British Columbia**, Vancouver, Canada
Master of Data Science in Computational Linguistics                                    *Coursing*
**Universidad de los Andes**, Bogotá, Colombia
Master in Information Technology
Bachelor in Industrial Engineering
Bachelor in Arts
**Fundacion Universitaria Jorge Tadeo Lozano**, Bogotá, Colombia
Graduate Diploma in Project Management

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## Awards & Achievements

- COLFUTURO Scholarship                                                               *2023*
- Data Science for All (DS4A)                                                         *2018*

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## Skills

**Data Science**
- Languages: Python, R, SQL
- Libraries: Pandas, Numpy, Matplotlib, Seaborn, Altair, Scikit-learn (Sklearn), Pytorch
- Techniques: Neural Networks, Machine Learning, Deep Learning

**Software Development**
- Web Development: Flask, NodeJS, D3js, ReactJS, HTML, CSS, Redux
- Languages: Typescript, Javascript, Java
- Databases: MongoDB
- Tools: GitHub, Git

**UI/UX**
- Design Tools: Figma, Adobe XD, Photoshop, Illustrator
- Video Editing: Premier Pro

**Others**
- Cloud Services: AWS (EC2, S3, Lambda, API Gateway), CDK, CloudFormation, DynamoDb
- Programming: C++, Arduino
- Visualization: ThreeJS
- Productivity: Microsoft Suite